

updated 10/29/80

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ORD FY-81 PROGRAMS FOR DDA

office

INFORMATION SYSTEMS

ODP

- ADVANCED TEXT SEARCH AND RETRIEVAL (150) ✓

250 625

OS

- COMPUTER NETWORK SECURITY (*AUDIT TRAIL ANALYSIS*) (100)

ODP

- COMPUTER SECURITY, SECURITY FILTERING (*COMMUNITY READ*) (375) ✓

PHYSICAL SECURITY AND COUNTERMEASURES

500 590

25X1A

25X1C

15K funded in FY-80

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FY81 RESEARCH PROGRAM

IN SUPPORT OF

OFFICE OF DATA PROCESSING

1 AUGUST 1980

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FY81 RESEARCH PROGRAM

IN SUPPORT OF

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1 AUGUST 1980

update 10/24/70

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ORD RESEARCH PROGRAM DEFINITION

- REQUIREMENTS GENERATED BY ALL OFFICES
- RANKING OF REQUIREMENTS (CRITICALITY, \$ PAY OFF)
- R&D VALIDITY
- ORD SKILL BASE
- PERCEPTUAL PROGRAM ELEMENTS
- TIMING OF RESEARCH

1 AUGUST 1980

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PROPOSED ORD FY81 PROGRAM

FY81

INFORMATION SYSTEMS

- ADVANCED TEXT SEARCH AND RETRIEVAL
- DATA PROTECTION TECHNIQUES FOR DATA
STORED ON MAGNETIC MEDIA
- COMPUTER NETWORK SECURITY

RELATED RESEARCH

- INFORMATION PROCESSING FOR ANALYSTS

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ADVANCED TEXT SEARCH AND RETRIEVAL - STUDY THE APPLICATION OF ADVANCED TEXT SEARCHING AND RETRIEVAL TECHNIQUES, INITIALLY DEVELOPED UNDER THE HIGH SPEED TEXT SEARCH PROGRAM, FOR APPLICATION TO ODP RETRIEVAL REQUIREMENTS. THE FY81 STUDY WILL INCLUDE AN EXAMINATION OF THE APPLICATION OF THE TECHNIQUES BY DIRECT INCORPORATION IN CPU'S (VIA MICROCODE) OR TO PERIPHERALS (VIA MODIFIED DISK CONTROLLERS), A DEFINITION, ILLEGIB



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DATA PROTECTION TECHNIQUES FOR DATA STORED ON MAGNETIC MEDIA - EXPLORE TECHNICAL MEANS FOR THE PROTECTION OF COMPUTER DATA STORED ON MAGNETIC MEDIA USED IN FIELD APPLICATIONS. THE OBJECTIVE IS TO AVOID THE COMPROMISE OF DATA WITHOUT THE NEED TO DESTROY DISKS AND TAPES. THE FY81 STUDY WILL EXAMINE ALGORITHMS FOR STORING AND RETRIEVING DATA IN PROTECTED FORM. THE ANALYSIS WILL ADDRESS IMPLEMENTATION, COST, AND OPERATIONAL CONSIDERATIONS.

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COMPUTER NETWORK SECURITY - EXPLORE METHODOLOGY TO PROVIDE A PROVABLY SECURE
MECHANISM TO ALLOW ACCESS TO AGENCY SYSTEMS BY OTHER INTEL-
LIGENCE COMMUNITY MEMBERS THAT OBSERVES COMPARTMENTATION
REQUIREMENTS. THE FY81 STUDY WILL ESTABLISH THE FORMAL
SPECIFICATION OF REQUIREMENTS AND WILL DETERMINE THE
SOLVABILITY OF THE FORMULATED PROBLEM.

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INFORMATION PROCESSING FOR ANALYSTS - CONTINUE THE EXPLORATION OF COMPUTER SYSTEMS

ARCHITECTURES WHICH WILL PROVIDE AN INFORMATION PROCESSING ENVIRONMENT DIRECTED TOWARDS THE MANIPULATION OF ANALYSTS' COGNITIVE MODELS RATHER THAN THE MANIPULATION OF ANALYSTS' DATA. THIS PHASE OF THE ACTIVITY INVOLVES THE SELECTION OF AN APPLICATION AREA AND THE DEVELOPMENT OF A DEMONSTRATION/ILLEGIB



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OTHER ODP FY81 RESEARCH REQUIREMENTS

- BANDWIDTH COMPRESSION TECHNIQUES (DDA RANKED #5)
 - MORE EFFECTIVE UTILITY OF BANDWIDTH CONSTRAINED COMMUNICATIONS OVERSEAS

ILLEGIB



- TRANSMISSION OF VOLUMINOUS TEXT AND IMAGERY TO ANALYST STATIONS (I.E., ADSTAR AND IDEX)

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